

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 7, 2002, 15:49:10 ; Search time 101.88 Seconds
(without alignments)
35.889 Million cell updates/sec

Title: us-08-569-749-9

Perfect score: 295

Sequence: 1 PEOLASAGFYVGRNDYKCFGCDGLRCWESGDDPWVHAKEPFRCE 48

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 219241 seqs, 7617452 residues

Total number of hits satisfying chosen parameters: 219241

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: PIR.*
2: PIR2.*
3: PIR3.*
4: PIR4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	283	95.9	618	2	S68450 apoptosits inhibito
2	282	95.6	358	2	JC5964 apoptosits inhibito
3	282	95.6	604	2	S68449 apoptosits inhibito
4	198	67.1	268	2	T10304 inhibitor of apopt
5	198	67.1	268	2	A53989 apoptosits-inhibiti
6	195	66.1	298	3	JC7568 kidney inhibitor o
7	183	62.0	1447	2	T42828 neuronal apoptosits
8	182	61.7	275	2	A45679 inhibitor-of-apopt
9	178	60.3	1232	2	A56478 neuronal apoptosits
10	174	59.0	497	2	S69544 apoptosits inhibito
11	156	52.9	496	2	S68452 apoptosits inhibito
12	156	52.9	497	2	S69545 apoptosits inhibito
13	119	40.3	150	2	T28403 ORF MSV248 probabl
14	118	40.3	286	2	D36828 ORF13 protein
15	117.5	39.8	486	2	T31057 BIR repeat contain
16	115	39.0	292	2	T41072 Bomby
17	111	37.6	275	2	T10310 apoptosits-inhibiti
18	110	37.3	208	2	T03183 probable apoptosits
19	104	35.3	997	2	T43523 apoptosits inhibito
20	100	33.9	155	2	T30489 apoptosits inhibito
21	79	26.8	155	2	T37471 apoptosits inhibito
22	77	26.1	308	2	T37474 apoptosits inhibito
23	71	24.1	234	2	T30427 ORF MSV242 probabl
24	64.5	21.9	329	2	T28403 ORF MSV242 probabl
25	64.5	21.9	772	2	D96504 protein F9C16.25 f
26	62	21.0	287	2	T05358 hypothetical prote
27	58.5	19.8	743	2	T02147 hypothetical prote
28	58	19.7	556	2	A32466 numb protein - fru
29	57.5	19.5	156	2	A48886 8-oxo-7,8-dihydrog

30	57.5	19.5	555	2	B49918
31	56	19.0	56	2	A38738
32	56	19.0	281	2	T13340
33	55.5	18.8	703	2	T04191
34	55.5	18.8	1536	1	RGAR53
35	55	18.6	92	2	S34802
36	55	18.6	92	2	S71372
37	55	18.6	625	2	T01929
38	55	18.6	954	2	S57108
39	55	18.6	3229	2	S27852
40	54.5	18.5	249	2	H72858
41	54.5	18.5	249	2	T41814
42	54.5	18.5	415	2	C71467
43	54.5	18.5	547	2	A36046
44	54.5	18.5	1170	1	TSHUP1
45	54.5	18.5	1170	2	A40558

ALIGNMENTS

RESULT 1
S68450
Apoptosits inhibitor hlap-2 - human
C.Species: Homo sapiens (man)
C.Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 21-Jul-2000
C.Accession: S68450
R.Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Chertom-Horvat, G.; Faraba
Nature 379, 349-353, 1996
M.Title: Suppression of apoptosis in mammalian cells by NATP and a related family of
A.Reference number: A58182; MUID:96149249
A.Accession: S68450
A.Status: nucleic acid sequence not shown
A.Molecule type: mRNA
A.Residues: 1-618 (hits)
A.Cross-references: EMBL:U45879; NID:g1184317; PIDN:AAC50372.1; PID:g1184318
C.Function:
A.Description: apoptotic suppressor
A.Descripton: apoptotic suppressor
C.Keywords: Apoptosits; zinc finger
F:567-611/Domain: RING finger homology <RNC>

Query Match 95.9%; Score 283; DB 2; Length 618;
Best Local Similarity 97.9%; Pred. No. 9.9e-26;
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 PEOLASAGFYVGRNDYKCFGCDGLRCWESGDDPWVHAKEPFRCE 48
|||||
DB 287 PEOLASAGFYVGRNDYKCFGCDGLRCWESGDDPWVHAKEPFRCE 334

RESULT 2
JC5964
Apoptosits inhibitor - pig
C.Species: Sus scrofa domestica (domestic pig)
C.Date: 04-Sep-1998 #sequence_revision 04-Sep-1998 #text_change 02-Sep-2000
C.Accession: JC5964
R.Steinhilb, C.; de Martin, R.; Binder, B.R.; Lipp, J.
Biochem. Biophys. Res. Commun 243, 827-833, 1998
A.Title: Cyclokin induced expression of porcine inhibitor of apoptosis protein (lap)
A.Reference number: JC5964; MUID:96102622
A.Accession: JC5964
A.Status: preliminary
A.Molecule type: DNA
A.Residues: 1-358 <STE>
A.Cross-references: GB:U79142; NID:92951174; PIDN:AAC59171.1; PID:92951175
C.Superfamily: RING finger homology
F:307-351/Domain: RING finger homology <RRN>

Query Match 95.6%; Score 282; DB 2; Length 358;
Best Local Similarity 93.8%; Pred. No. 7.9e-26;

Query Match	52.98;	Score 156;	DB 2;	Length 496;
Best Local Similarity	55.68;	Pred. No. 7e-11;		
Matches 25; Conservative	6;	Mismatches 14;	Indels 0;	Gaps 0

QY 4 LASAGYVVGRNDVYKFCFCCDGLRCMESGDDPWVEHAKWPFCE 48
|| || | : || | : || | : || || || || || : ||
Db 231 LAQAGLYYQXIGDYVCFHCNIGLRSMQEKEDPWF EHAHKWSPCKQ 275

RESULT 12
260545

A:Species: *Drosophila melanogaster*
 C:Species: *Drosophila melanogaster*
 C:Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 21-Jan-2000
 C:Accession: 569545
 R:Duckett, C.S.; Naya, V.E.; Gedrich, R.W.; Clem, R.J.; van Dongen, J.L.; Giffillan, M.C.; Emdin, J.F. 2685-2694, 1996
 A:Title: A conserved family of cellular genes related to the baculovirus iap gene and encoding a novel protein with a zinc finger motif
 A:Reference number: 569544; NUID:56552686
 A:Accession: 569545
 A>Status: Preliminary; nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-497 <DUC>
 A:Cross-references: EMBL:U32373; NID:q1019116; PIDN:AA047155.1; PID:q1019117
 C:Genetics:
 A:Gene: i11p
 C:Superfamily: apoptosis inhibitor IAP homolog, RING finger homology
 F:440-490/Domain: RING finger homology <RNA>
 F:440-490/Domain: RING finger homology <RNA>

Query Match	52.98;	Score 156;	DB 2;	Length 497;
Best Local Similarity	55.68;	Pred. No. 7e-11;		
Matches 25; Conservative	6;	Mismatches 14;	Indels 0;	Gaps 0;

Qy **4** LASAGLYYVGRNDYKFCDDGLRCWESGDDEPWEHAKMKPFCE 48
 || || | | : || | : || | : : || || || | : :
Db **233** LAQAGLYQQIGDOVRCFHCNIGLSRWOKEDEPWFHEHAKMSPKCQ 277

RESULT 13
T28409

OK: MSV248 Probable inhibitor of apoptosis protein (IAP) - Melanoplus sanguinipes entomopoxvirus
S:Species: Melanoplus sanguinipes entomopoxvirus
C:Date: 21-Jan-2000 #sequence, revision 21-Jan-2000 #text-change 21-Jul-2000
A:Accession: J28409
R:Accession: J28409
V:Title: The genome of Melanoplus sanguinipes entomopoxvirus.
V:Virus: 73,153-552,1999
A:Title: The genome of Melanoplus sanguinipes entomopoxvirus.
A:Accession number: J28409
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-150 <AFC-
A:Cross-References: EMBL:AF063866; NID:g4045647; PIDR:AA977724.1; PID:g4049764
C:Genetics:
C:Note: MSV248

Query Match	40.38;	Score 119;	DB 2;	Length 150;
Best Local Similarity	42.28;	Pred. No. 5.3e-07;		
Matches 19; Conservative	7;	Mismatches 19;	Indels 0;	Gaps 0

```
OY      3 QLASGFFYYGRNDVKKFCFGDGLRCNESGGDDPMVEHAKWPRC 47
        :| | | | | | | | | | | | | | | | | | | | | | | |
DB     36 RLCEAGFFYTINIGDTVCENCGLIKKNMLLYNDPWIEMSKSPNC 80
```

RESULT 14
D36828

orf13 protein - Autographa californica nuclear polyhedrosis virus
C-Species: Autographa californica nuclear polyhedrosis virus, ACNPV
C Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 17-Nov-2000
C Accession: D36828; C12853

B: Braunagel, S.; Daniel, K.D.; Reilly, L.M.; Guarino, L.A.; Hong, T.; Summers, M.D. *Virology* 191, 1003-1008, 1992
A: Nucleotide sequence, genomic organization of the EcoRI-A fragment of Autographa californica multiple nucleocapsid nuclear polyomavirus.
V: Reference number: A44221; MID: 93079853

A;Reference number: A44221; MUID:93079853

A;Status: preliminary

A;Residues: 1-286 <BRA>

R:Ayres, M.D.; Howard, S.C.; Kuzio, J.; Lopez-Ferber, M.; Possee, R.D.

A; Title: The complete DNA sequence of Autographa californica nuclear polyhedrosis vir
A; Reference number: 573850; With: 04203173

A;Accession: C72853
A;Status: Preliminary

A: Molecule type: DNA
A: Residues: 1-199 'T' 201-286 <AYP>

A:Cross-references: GB:L22858; NID:g510708; PIDN:AAA66657.1; PID:g5590966
C:Genetics:

C: Superfamily: viral apoptosis inhibitor TAP, RING finger homology

Query Match	40.08; Score 118; DB 2; Length 286;
-------------	-------------------------------------

Matches	19;	Conservative	7;	Mismatches	18;	Indels	0;	Gaps	0;
---------	-----	--------------	----	------------	-----	--------	----	------	----

Oy 4 LASAGFYVVGRRNDVKCFCCDGGRLRCWESGDDPWVEHAKWPRC 47
 :) | : | | : | | | : | (: : | | | | : |
Db 153 IAEAGLFYTGGRDETVCFPCDCCVRDWHTNEDTWQRHAENPQC 190

RESULT	15
727067	

BR repeat containing ubiquitin-conjugating enzyme BRUCE - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 21-Jul-2000
 C:Accession: T31067
 R:Hauser, H.P.; Bardehoff, M.; Pyrowolakis, G.; Jentsch, S.
 J Cell Biol. 141, 1415-1422, 1998
 A>Title: A giant ubiquitin-conjugating enzyme related to IAP apoptosis inhibitors
 A:Reference number: Z20963; M01D:58292517
 A:Accession: t31067
 A>Status: preliminary; translated from GR/EMBL/DBD3
 A:Molecule type: mRNA
 A:Residues: 1-484 <EMBL>
 A:Cross-references: EMBL:Y17267; NID:g3319989; PIDD:CA47620.1; PID:g3319990
 A>Note: localised to the Golgi compartment and the vesicular system
 C:Keywords: membrane-associated protein

Query Match	39.8%	Score 117.5	DB 2	Length 4845
Best Local Similarity	42.0%	Pred. No. 1.9e-05		
Matches 21: Conservative	6	Mismatches 20	Indels 3	Gaps 1

```
QY      1 PEQLASAGFY--VGRNDVKFCFCDGGLRCWESGDPPVEYEHAKWPRC 47
        : : : : : : : : : : : : : : : : : : : : : : : :
Db     281 PDPMAGFGYHQPAASSGGDDRAMCFCTGCVCIVCWEPTEDEPWSSEHERHSPNC 330
```

Search completed: January 7, 2002, 15:49:10
Job time: 704 sec

Tue Jan 8 08:23:59 2002

us-08-569-749-9.rpt

Page 5

